

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE 2003/001955

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 16-19
because they relate to subject matter not required to be searched by this Authority, namely:
See extra sheet
2. ☒ Claims Nos.: 8, 10 (partially)
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
See extra sheet
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-4, 7-19

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

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Box II.1

Claims 16-19 relate to methods of treatment of the human or animal body by surgery or by therapy or diagnostic methods practiced on the human or animal body (Rule 39.1(iv)). Nevertheless, a search has been executed for these claims. The search has been based on the alleged effects of the compounds or compositions.

Box II.2

The expression "conditions associated with glycogen synthase kinase-3" in claims 8 and 10 is not clear and concise and does not comply with PCT Articles 5 and 6 as it defines the conditions by the mechanism behind the conditions and does not mention the specific conditions. It is therefore not clear which conditions are comprised by these claims. The search has been performed on the general expression in some parts but has mainly been focused on the conditions named in claims 11-14.

Box III

According to PCT Article 34 (3) (a-c) and Rule 13.2, an application shall relate to one invention only or to a group of inventions linked by one or more of the same or corresponding "special technical features", i.e. features that define a contribution which each of the inventions makes over the prior art. In order to consider that end products and intermediates represents one invention it is necessary that the essential structural elements of the end product also can be found in the intermediate. Claims 5-6 and 20 of the present application relates to intermediates and their use. These compounds are not considered to have enough structural similarity with the end products to fulfil the demands of unity. The compounds defined of the application have been divided into three inventions according to the following:

- 1) Compounds according to formula I. Pharmaceutical formulations, use and methods involving these compounds. Claims 1-4 and 7-19.
- 2) The compound 3-amino-6-bromo-*N*-pyridin-3-ylpyrazine-2-carboxamide and use of this compound. Claims 5 and 20 partially.
- 3) The compound *N*-[3-(4-bromophenyl)propyl]-*N,N*-dicyclobutylamine and use of this compound. Claims 6 and 20 partially.

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A. CLASSIFICATION OF SUBJECT MATTER

IPC7: C07D 401/12, C07D 401/14, A61K 31/497, A61P 25/00, A61P 3/10, A61P 5/48, A61P 15/18, A61P 17/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: C07D, A61K, A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CHEM ABSDATA, WPI DATA, EPO-INTERNAL

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 0168612 A2 (COCENSYS, INC.), 20 Sept 2001 (20.09.2001) --	1-4,7-19
X	US 2001/0031772 A (KARL SCHOENAFINGER ET AL), 18 October 2001 (18.10.2001) --	1-4,7-19
A	WO 02092585 A1 (BIOVITRUM AB), 21 November 2002 (21.11.2002) --	1-4,7-19
A	WO 0160806 A2 (NEUROGEN CORPORATION), 23 August 2001 (23.08.2001) --	1-4,7-19

☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.

* Special categories of cited documents	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent but published on or after the international filing date	"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
19 April 2004	20-04-2004

Name and mailing address of the ISA/ Swedish Patent Office Box 5055, S-102 42 STOCKHOLM Facsimile No. +46 8 666 02 86	Authorized officer Ida Christensen/ELY Telephone No. +46 8 782 25 00
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6255307 B1 (BRIAN COX ET AL), 3 July 2001 (03.07.2001) -- -----	1-4, 7-19

INTERNATIONAL SEARCH REPORT

Information on patent family members

31/03/2004

International application No.

PCT/SE 2003/001955

WO	0168612	A2	20/09/2001	AP	200202629	D	00/00/0000
				AU	4562001	A	24/09/2001
				CA	2400945	A	20/09/2001
				CN	1422254	T	04/06/2003
				EP	1265866	A	18/12/2002
				HU	0300466	A	28/07/2003
				IL	151417	D	00/00/0000
				JP	2003527376	T	16/09/2003
				NO	20024308	A	08/11/2002
				US	2002040025	A	04/04/2002

US	2001/0031772	A	18/10/2001	NONE
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WO	02092585	A1	21/11/2002	AU	7287501	A	05/02/2002
				CA	2443724	A	21/11/2002
				NO	20034996	D	00/00/0000
				SE	0101659	D	00/00/0000
				US	2003149019	A	07/08/2003
				US	2003149020	A	07/08/2003
				AU	8273501	A	18/02/2002
				GB	0301788	D	00/00/0000
				GB	2382279	A	21/05/2003
				SE	0101660	D	00/00/0000
				AU	8816101	A	26/03/2002
				EP	1317232	A	11/06/2003
				SE	0101958	D	00/00/0000

WO	0160806	A2	23/08/2001	AU	3849401	A	27/08/2001
				BG	106968	A	30/04/2003
				BR	0108363	A	10/02/2004
				CA	2398937	A	23/08/2001
				CN	1400970	T	05/03/2003
				CZ	20022739	A	12/02/2003
				EE	200200453	A	15/12/2003
				EP	1255740	A	13/11/2002
				HU	0301573	A	29/12/2003
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				JP	2004500383	T	08/01/2004
				NO	20023869	A	11/09/2002
				SK	11542002	A	04/03/2003
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				ZA	200206103	A	20/08/2003

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Information on patent family members

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PCT/SE 2003/001955

US	6255307	B1	03/07/2001	AP	9901632	D	00/00/0000
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				AU	732915	B	03/05/2001
				AU	6823798	A	18/09/1998
				BG	103723	A	31/05/2001
				BR	9807814	A	22/02/2000
				CA	2282585	A	03/09/1998
				DE	69818643	D	00/00/0000
				DK	966448	T	02/02/2004
				EA	2102	B	00/00/0000
				EE	9900376	A	17/04/2000
				EP	0966448	A,B	29/12/1999
				SE	0966448	T3	
				HU	0001802	A	28/05/2001
				IL	131293	A	31/07/2003
				JP	3369189	B	20/01/2003
				JP	2000511203	T	29/08/2000
				NO	313383	B	23/09/2002
				NO	994213	A	29/10/1999
				NZ	337121	A	30/03/2001
				SK	117399	A	12/06/2000
				US	6599905	B	29/07/2003
				US	2002169172	A	14/11/2002
				CN	1105111	B	09/04/2003
				CN	1253551	T	17/05/2000
				GB	9704275	D	00/00/0000
				HR	980107	A	31/12/1998
				ID	22850	A	00/00/0000
				PL	335441	A	25/04/2000
				TR	9902082	T	00/00/0000
				TW	513416	B	00/00/0000
				WO	9838174	A	03/09/1998
				ZA	9801624	A	26/08/1999
				GB	9708183	D	00/00/0000
				JP	2002308773	A	23/10/2002
